Appl. No.: 09/448,175 Amdt. dated: 7/25/2005

Reply to Office Action of February 23, 2005

REMARKS/ARGUMENTS

Upon entry of the instant amendment, claims 1, 3-5, and 7-9 are pending. Claim 2 has been cancelled and claims 1 and 4 have been amended to more particularly point out the applicant's invention. It is respectfully submitted that upon entry of the instant amendment, the application is in condition for allowance.

CLAIM REJECTIONS - 35 U.S.C. § 112

Claims 1-5 and 7-9 have been rejected under 35 U.S.C. § 112, first paragraph, for allegedly failing to comply with the enablement requirement. In particular, an objection was made to the multiplication factor recited in claims 1 and 2. Claim 2 has been cancelled. Thus, the rejection with respect to claim 2 is obviated. With respect to claim 1 and claim 3 which depends on claim 1, claim 1 has been amended to recite a multiplication factor of e³⁻ⁿ. The support for this change is found on page 7, lines 3-14 of the specification.

Claim 4 has been amended to delete the complex modulator as one of the elements of the polyphase filter. As such, the rejection of claim 4 should be overcome.

Claim 8 has been rejected for failing to support a frequency analyzer with a single output signal. It is respectfully submitted that claim 8, as previously amended, recites a frequency combiner. It is respectfully submitted that a frequency combiner (also known as a frequency synthesizer) is amply supported in the specification. For example, Figs. 1B and 3B illustrate frequency synthesizers. Page 5, lines 29 to page 6, line 1, indicates that the principles of the present invention relating to frequency analyzers are also applicable to frequency synthesizers ("although the principles of the invention are described and illustrated herein with respect to a frequency analyzer, as is generally known in the art, such principles are also applicable to DFT filter banks implemented as frequency synthesizers.") For all of the above reasons, the Examiner is respectfully requested to reconsider and withdraw the rejection of claim 8 as well as claims 1, 3-5, 7, and 4.

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Respectfully submitted,

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